

API Endpoints

Login and Signup :

Signup: Users will be able to signup for a new account with name, email and password.

endPoint: /userSignup

Type: POST

Success: 200

Failure: 400,409 (User exists)

Input:

```
{  
  data: user_email, name, password  
}
```

Login: Users will be able to login with the email id and password. Prevents login if users email id or password is not registered.

endPoint: /userLogin

Type: GET

Success: 200

Failure: 400,401

Input:

```
{  
  data: user_email,password  
}
```

My Profile Page

Users should be able to add and update their name, gender, location, description, password, profile picture, a list of topics they are interested in (user should be able to add/edit/delete topic list)

Edit User Details:

endPoint: /editUser/{UserName}

Type: PUT

Success: 200

Failure: 400

Input:

```
{
  Name : "User1",
  Gender:" ",
  Location: " ",
  Description: " ",
  Password:" ",
  Profilepic :Url,
  Topics:["Topic1","Topic2","Topic3"]
}
```

My Communities Page

Create community:**endPoint:** /createCommunity**Type:** POST**Success:** 200**Failure:** 400, 409 (community already exists)**Input:**

```
{
  communityName: "My community",
  communityDescription: "This is my community",
  communityRules: ["rule1", "rule2", "rule3"],
  Images: ["image1", "image2"]
  ....
}
```

Edit community:**endPoint:** /editCommunity/{communityName}**Type:** PUT**Success:** 200**Failure:** 400**Input:**

```
{
  communityDescription: "This is my community",
  communityRules: ["rule1", "rule2", "rule3"],
  Images: ["image3", "image4"]
}
```

List Communities:

endPoint: /listCommunities/{communityName}/{pageStart}/{pageEnd}

Type: GET

Success: 200

Failure: 400

Output:

```
[{
  communityName: "community 1",
  Timestamp: "2021-04-01 5:00 pm"
  communityImages: ["image 1", "image 2", "image 3"],
  description: "community description",
  numberOfPosts: 10,
  numberOfUsers: 100,
},
{
  communityName: "community 1",
  Timestamp: "2021-04-01 5:00 pm"
  communityImages: ["image 1", "image 2", "image 3"],
  description: "community description",
  numberOfPosts: 10,
  numberOfUsers: 100,
},
]
```

Delete Community:

endPoint: /deleteCommunity/{communityName}

Type: DELETE

Success: 200

Failure: 400

MY COMMUNITIES MODERATION PAGE

Functionalities identified:

Show the list of communities created by the user.

API Endpoint : /communitiesCreated/ :user

Type: GET

Success: 200 (OK)

Failure: 400

Response Data:

```
[{
  communityName: "community 1",
  Timestamp: "2021-04-01 5:00 pm",
  communityImages: ["image 1", "image 2", "image 3"],
  description: "community description",
  numberOfPosts: 10,
  numberOfUsers: 100,
},
{
  communityName: "community 1",
  Timestamp: "2021-04-01 5:00 pm",
  communityImages: ["image 1", "image 2", "image 3"],
  description: "community description",
  numberOfPosts: 10,
  numberOfUsers: 100,
},
]
```

Each community should show the number of users who have requested to join. Clicking on the community should show the list of users with their profile picture name etc in a modal window.

API Endpoint: /getAllUserRequest/:community

Type: GET

Success: 200 (OK)

Failure: 400

Response Data:

```
[{
  userName: "Jane Doe",
  userEmail: "janed@gmail.com",
  gender: "female",
  profilePhoto: "http://amazons3.com/....",
  userDescription: "user description 1",
  listOfTopics: ["topic1", "topic2", ...],
  location: "USA (or we could use latitude/longitude)"
}]
```

```

listOfCommunitiesReq: [ "community1", "community2",....],
listOfCommunitiesAcc: [ "community3", "community4",....]

},
{
  userName: "John Doe",
  userEmail: "johnd@gmail.com"
  gender: " male"
  profilePhoto: "http:// amazons3.com/.... ",
  userDescription: "user description 2",
  listOfTopics: ["topic1","topic2",...],
  location: " USA ( or we could use latitude/longitude)",
  listOfCommunitiesReq: [ "community1", "community2",....],
  listOfCommunitiesAcc: [ "community3", "community4",....],
},
]

```

The community owner should be able to select one or more users (use a checkbox) and approve their request to join the group.

API Endpoint: /acceptRequest (data:{user id, community id/name}) (Move value from one array to another in user document).

Type: POST

Success: 200 (OK)

Failure: 400

Show the list of users who have joined the communities (created by the user) along with their profile picture.

API Endpoint: /getAllUser/:community

Type: GET

Success: 200 (OK)

Failure: 400

Response Data: (Query to be written in such a way that out of the entire user data only this is fetched.

```

[{
  userName: "Jane Doe",

```

```

    userEmail: "janed@gmail.com"
    profilePhoto: "http://amazons3.com/....",
  },
  {
    userName: "John Doe",
    userEmail: "johnd@gmail.com"
    profilePhoto: "http://amazons3.com/....",
  },
]

```

The owner should be able to click on a user, display the list of communities they belong to in a modal window and select one or more communities and remove them.

APIs:

Type: GET

Endpoint: /communities/ :user (we can fetch from user document which will have reference to community document)

Success: 200 (OK)

Failure: 400

Response Data:

```

[
  {
    communityName: "community 1",
    Timestamp: "2021-04-01 5:00 pm"
    communityImages: ["image 1", "image 2", "image 3"],
    description: "community description",
    numberOfPosts: 10,
    numberOfUsers: 100,
  },
  {
    communityName: "community 1",
    Timestamp: "2021-04-01 5:00 pm"
    communityImages: ["image 1", "image 2", "image 3"],
    description: "community description",
    numberOfPosts: 10,
    numberOfUsers: 100,
  },
]

```

Type: POST/DELETE

Endpoint: /deleteUser (data: user id, community_id)

Success: 200 (OK)

Failure: 400

Community search page:

Communities search pages should show the list of all the communities with most recently created first, with pagination

(Here fetching all the communities from the community table in the database sorting in backend by timestamp (most recent should show up)).

endPoint: /listCommunities/{pageStart}/{pageEnd}

Type: GET

Success: 200

Failure: 400

Output:

```
[{
  communityName: "community 1",
  Timestamp: "2021-04-01 5:00 pm",
  communityImages: ["image 1", "image 2", "image 3"],
  description: "community description",
  numberOfPosts: 10,
  numberOfUsers: 100,
}]
```

Users should be able to upvote or downvote a community

(Community table will have column vote which will get updated here)

(If upvote set column = 1 if downvote set column = 2)

endPoint: /voteCommunities

Type: POST

Success: 200

Failure: 400

Input communityName and email id of user

Action: Query to update the column vote in community table

Response: Column updated

Users should be able to sort communities by created at, most number of users, most

number of posts, most upvoted posts in ascending and descending order.

Sort Communities: We need to sort communities based on the criteria the user has selected. We can send the sorting technique to the backend and display the sorted posts.

endPoint: /sortCommunity

Type: GET

Success: 200

Failure: 400

Input:

```
{
    Sorting_technique: technique_1
    ....
}
```

Users should be able to search for a community by name.

Community Home Page

EndPoint: /getCommunity/{communityName}

Type: GET

Success: 200

Failure: 400

Output:

```
{
  communityName: "community 1",
  Timestamp: "2021-04-01 5:00 pm"
  communityImages: ["image 1", "image 2", "image 3"],
  description: "community description",
  numberOfPosts: 10,
  numberOfUsers: 100,
},
```

EndPoint: /joinCommunity

Type: POST

Success: 200

Failure: 400

Req Body:

```
{  
  name: "community name"  
}
```

EndPoint: /createNewPost

Type: POST

Success: 200

Failure: 400

Req Body:

```
{  
  post_type: "text",  
  title: "Hello World!!",  
  message: "I am alive"  
}
```

EndPoint: /postUpvote

Type: POST

Success: 200

Failure: 400

Req Body:

```
{  
  postId: 24,  
}
```

EndPoint: /postDownvote

Type: POST

Success: 200

Failure: 400

Req Body:

```
{  
  postId: 24,  
}
```

EndPoint: /addComment

Type: POST

Success: 200

Failure: 400

Req Body:

```
{  
  parentId:241  
  userId: 1234  
}
```

Output:

```
{  
  commentId:241,  
  parentId:12  
}
```

endPoint: /listComments/:parentId

Type: GET

Success: 200

Failure: 400

Output:

```
[  
  {  
    commentId:12,  
    commentData: "Welcome to reddit!"  
  }  
]
```

endPoint: /commentUpvote

Type: POST

Success: 200

Failure: 400

Req Body:

```
{  
  commentid:24,  
}
```

endPoint: /commentDownvote

Type: POST

Success: 200

Failure: 400

Req Body:

```
{  
  commentid:24,  
}
```

My Dashboard:

Show all posts: Get all the communities the user is part of and then posts of those communities.

(We need to store data in such a way that a community collection will have all it's posts and each post will have its own comments stored in the same collection).

endPoint: /getAllPosts

Type: GET

Success: 200

Failure: 401 (Unauthorized)

Input:

```
{  
  User: user_id/userEmail  
}
```

Sort Posts: We need to sort posts for a user based on the criteria he has selected. We can send the sorting technique to the backend and display the sorted posts.

endPoint: /sortPost

Type: GET

Success: 200

Failure: 401 (Unauthorized)

Input:

```
{  
  User: user_id/userEmail,  
  Sorting_technique: technique_1  
  ....  
}
```

My Communities Analytics :

Number of users in a community: Get total users in community by using count in query

Number of posts in a community: Get count of posts of that community

The most upvoted post: Get the post with MAX upvote query

User who created the maximum number of posts: Get the user by counting the user id who created the post

Community with the maximum number of posts: Get this by counting the total posts of communities and getting the MAX of it.

endPoint: /communityAnalytics

Type: GET

Success: 200

Failure: 400

Input:

```
{
  data: community_name/community_id
}
```

Output:

```
[{
  numberOfUsersInCommunity: "community name",
  totalPosts: 55,
  mostUpvotedPost: "Post Name",
  userNameWithMaxPost: "user name",
  communityWithMaxPosts: "community name",
}]
```

Invitations to join Communities:

Any user will be able to invite other users to his community only when he is the admin of that community.

So first, we will check all communities and their admins and then only provide him the privilege of inviting other users to the community.

We will require 2 API's in this case:

- 1. One when the community admin invites the other users of reddit**
- 2. When the invited user will accept the invite.**

- The API's can be found below:

endPoint: /sendInvite

Type: POST

Success: 200

Failure: 400

Input:

{“user@gmail.com”}

Action: Query database to get list of all users on reddit and pass the list to the UI

Output:

```
{
  listOfUsers:
  [{"john@gmail.com",
    "tim@gmail.com",
    "tom@gmail.com"}]
}
```

endPoint: /acceptInvite

Type: POST

Success: 200

Failure: 400

Input: {“user@gmail.com”}

Action: Query to get list of all communities where the user has been invited

Response:

```
[{
  "Community1",
  "Community2"}]
```

My messages:

Endpoint: /searchUsers

Type: GET

Success: 200

Failure: 400

Input:

```
{
  searchString: The string entered the by the User
}
```

Output:

An array of Users like the search string.

Endpoint: /getChat

Type: GET

Success: 200

Failure: 400

Input:

```
{  
  user1: Present Logged in user,  
  user2: User the present logged in user wants to chat with  
}
```

Output:

Whole chat between both the users.

User Profile Page

endPoint: /getUser/{UserName}

Type: GET

Success: 200

Failure: 400

Input: {UserName}

Output:

```
{  
  Name : "User1",  
  Gender:""  
  Location: "",  
  Description: "",  
  Password:" "  
  Profilepic :Url,  
  Topics:['Topic1',"Topic2","Topic3"]  
  
}
```